

I. AMENDMENTS TO THE SPECIFICATION:

Kindly amend the Substitute Specification filed on January 14, 2009 as follows:

1. Kindly replace Table 13 on page 69 with the following new Table 13 as follows:

[Table 13]

Copper Alloy		No. Type	Average Grain Diameter (μm)	Machinability				Tensile strength (N/mm ²)	Yield strength (N/mm ²)	Elongation (%)	Fatigue strength (N/mm ²)
				Cutting type		Cutting main stress (N)					
				80m/min	160m/min	80m/min	160m/min				
Embodiment											
1	A		85								
2	A		40								
3	A		25	⊙				532	245	44	253
4	A		15	⊙				535	268	45	258
5	A		25	⊙				523	256	44	254
6	A		30	⊙							
7	A		55					492	219	42	
8	A		90								
9	A		40					498	236	30	
10	A		25	⊙							
11	A		20								
12	A		65								
13	A		80								
14	A		45	○	△	122	133				
15	A		65					485	206	39	
16	A		70								
17	A		30								
18	A		20	⊙	○	115	127				
19	A		20	⊙	○	111	118				
20	A		20	⊙	○	110	118				
21	A		20	⊙	⊙	110	117				
22	A		20	⊙	⊙	109	116				
23	A		20	⊙	⊙	108	114	530	266	43	254

2. Kindly replace Table 14 on page 70 with the following new Table 14 as follows:

[Table 14]

Copper Alloy		Average Grain Diameter (μm)	Machinability				Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Fatigue Strength (N/mm ²)	
No.	Type		Cutting type		Cutting main stress (N)						
			80m/min	160m/min	80m/min	160m/min					
Embedment	24	A	20	⊙	⊙	106	112				
	25	A	20	●	⊙	104	109	522	251	38	
	26	A	45	○	○	115	124				
	27	A	45	⊙	○	114	123				
	28	A	45	⊙	○	111	119				
	29	A	45	⊙	⊙	109	115				
	30	A	40	○	○	114	124				
	31	A	40	⊙	○	110	118				
	32	A	35	⊙	○	113	122				
	33	A	25	⊙	⊙	111	119				
	34	A	15					528	272	40	262
	35	A	20	⊙	○	116	127	520	260	34	
	36	A	20	⊙	○	117	129				
	37	A	20					443	256	13	
	38	A	25	○	△			642	302	30	304
	39	A	45								
40	A	30	○	△			554	256	33		
41	A	60									
42	A	20									
43	A	20	⊙	○	114	123					
44	A	20	⊙	⊙	111	116	525	261	34	252	
45	A	15									
46	A	15					612	288	32		

3. Kindly replace Table 15 on page 71 with the following new Table 15 as follows:

[Table 15]

Copper Alloy		No. Type	Average Grain Diameter (μm)	Machinability				Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Fatigue strength (N/mm ²)
	Type			Cutting type		Cutting main stress (N)					
				80m/min	160m/min	80m/min	160m/min				
Embodiment											
47	B		15	◎	○	115	128	720	640	17	336
48	B		15	◎	○	116	128	735	655	15	
49	B		150					698	599	14	
50	B		25	○	○	119	134	705	613	19	
51	B		15	◎	◎	110	117	715	632	16	
52	B		15	◎	○	117	129	730	651	15	
53	C		35					501	234	30	
54	C		20					524	262	32	
55	C		15					534	278	34	
56	C		25					515	250	33	
57	C		80					468	203	28	
58	C		80					546	245	27	
59	C		15					526	257	32	
60	C		25					522	252	40	
61	C		25								
62	C		15					521	250	33	
63	C		15								
64	C		20					525	255	32	
65	C		15								
66	C		20								
67	C		15					521	250	31	
68	C		20								
69	C		70								
70	C		20								

4. Kindly replace Table 16 on page 72 with the following new Table 16 as follows:

[Table 16]

Copper Alloy		No. Type	Average Grain Diameter (μm)	Machinability				Tensile strength (N/mm ²)	Yield strength (N/mm ²)	Elongation (%)	Fatigue Strength (N/mm ²)
	Cutting type			Cutting stress (N)							
				80m/min	160m/min	80m/min	160m/min				
Embodiment											
71	C		30					488	235	34	
72	C		20					528	289	32	
73	C		22					523	285	33	
74	D		30					514	240	34	
75	D		20					516	254	36	
76	D		80					522	235	26	
77	D		15								
78	D		20								
79	E		25					520	256	33	
80	E		25	⊙	⊙	109	116	518	248	28	
81	E		25	⊙	⊙	107	113				
82	E		25								
83	E		30	○	△						
84	E		50								
85	E		30	⊙	○						
86	E		65								
87	E		55								
88	E		20	⊙	○						
89	E		30	⊙	○	116	124	598	276	26	272
90	E		30	⊙	○	117	126				
91	F		50					477	245	27	
92	G		15					536	284	38	

5. Kindly replace Table 17 on page 73 with the following new Table 17 as follows:

[Table 17]

Copper Alloy		No. Type	Average Grain Diameter (μm)	Machinability				Tensile strength (N/mm ²)	Yield strength (N/mm ²)	Elongation (%)	Fatigue Strength (N/mm ²)
	Cutting type			Cutting main stress (N)							
				80m/min	160m/min	80m/min	160m/min				
Comparative Example											
		201 A1	1500					435	170	36	156
		202 A1	600	⊙	△			433	174	34	254
		203 A1	220					440	188	32	176
		204 A1	350	⊙	△						
		205 A1	100	×	×						
		206 A1	400	□	×						
		207 A1	600	□	×						
		208 A1	600	×	×						
		209 A1	300	×	×						
		210 A1	400								
		211 A1	1200								
		212 A1	200	△	×						
		213 A1	250	×	×						
		214 A1	500								
		215 A1	1000	●	⊙						
		216 A1	1200	⊙	○			296	95	25	
		217 B1	450	△	△			282	94	21	
		218 B1	350	○	△			650	558	15	
		219 C1	300		△			684	572	6	
		220 C1	1000								
		221 C1	20								
		222 C1	600					418	184	23	
		223 C1	500					394	178	25	

6. Kindly replace Table 18 on page 74 with the following new Table 18 as follows:

Table 18

Copper Alloy		Average Grain Diameter (μm)	Machinability				Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Fatigue Strength (N/mm ²)
No.	Type		Cutting type		Cutting main stress (N)					
			80m/min	160m/min	80m/min	160m/min				
224	C1	400					441	194	30	
225	D1	2000					412	166	22	
226	D1	1200					232	80	22	
227	E1	90	x	x						
228	E1	1500					426	170	24	
229	E1	800								
230	E1	200	x	xx						
231	E1	400	△	□			430	174	25	
232	E1	350					438	188	26	
233	E1	350								
234	F1	2500					408	162	25	
235	G1	25	●	●	96	101	387	165	39	
236	G1	35	●	⊗	102	109	398	175	36	

Comparative Example